

THE GENUS «SCLERIA» IN EXTRATROPICAL SOUTH AMERICA

BY EARL L. CORE

RESUMEN

El género *Scleria* en sudamérica extratropical. — El autor revisa nuevamente la distribución en Argentina, Uruguay y parte del Paraguay y Brasil de las especies del género *Scleria*, añadiendo nuevas localidades a las consignadas en su publicación anterior (*Brittonia*, II (1936) 1-105, tab. 1-3), sobre el mismo género, hace una clave para las 18 especies que viven en el área indicada y consigna además la sinonimia de las mismas sin describirlas.

Since the publication of my revision of the genus *Scleria*¹, numerous new distributional records for extratropical South America have come to light. It seems advisable, in publishing these new records, to include also the old records, together with complete keys and synonymy of the 18 species represented in the region. Species occurring in Argentina, Uruguay, extratropical Paraguay, and in the states of Rio Grande do Sul, Santa Catharina, and Paraná, Brazil, are included. I wish to acknowledge my gratitude to Dr. Horacio R. Descole, Director of the Instituto Miguel Lillo, for allowing me to see certain duplicates from the Herbarium of that institution.

¹ *The American species of «Scleria»*, en *Brittonia* 2: 1-105. pl. 1-3, 1936.

KEY TO THE SPECIES

- a. Hypogynium obscure or none.
 - b. Inflorescence simple.
 - c. Achene essentially smooth
 - d. Scales hirsute 1. *S. hirtella*
 - d. Scales glabrous 4. *S. leptostachya*
 - c. Achene reticulate or verrucose.
 - d. Inflorescence interruptedly glomerate-spicate 4. *S. leptostachya*.
 - d. Inflorescence a single cluster at the summit of the culm. 3. *S. filiculmis*.
 - b. Inflorescence more or less branched.
 - c. Achene smooth.
 - d. Inflorescence virgately branched. 5. *S. spicata*.
 - d. Inflorescence not virgately branched. 4. *S. leptostachya*.
 - c. Achene verrucose-tuberculate or reticulate.
 - d. Leaves less than 5 mm wide.
 - e. Inflorescence lax, paniculate or interruptedly glomerate-spicate.
 - f. Achene transversely rugose 4. *S. leptostachya*.
 - f. Achene reticulate 2. *S. catharinensis*.
 - e. Inflorescence spicate, dense 6. *S. composita*.
 - d. Leaves 5 mm wide or wider.
 - e. Inflorescence spicate, dense 7. *S. scabrosa*.
 - e. Inflorescence more or less spreading. 8. *S. variegata*.
- a. Hypogynium present
 - b. Hypogynium margin ciliate, fimbriate, or serrate.
 - c. Hypogynium ciliate on the margin 9. *S. Uleana*.
 - c. Hypogynium margin fimbriate or serrate
 - d. Achene smooth, purplish-violet 10. *S. arundinacea*
 - d. Achene rugose, white.
 - e. Achene strongly rugose-tuberculate 11. *S. panicoides*.
 - e. Achene sparsely tuberculate 12. *S. plusiophylla*.
 - b. Hypogynium three-lobed, the lobes entire.
 - c. Achene verrucose, reticulate, or papillate.
 - d. Bracts glabrous 13. *S. colorata*.
 - d. Bracts ciliate 14. *S. Sellowiana*.
 - c. Achene smooth.
 - d. Hypogynium supporting 6 tubercles 15. *S. Balansae*.
 - d. Hypogynium not tubercle-bearing.
 - e. Achene very large. 4-6 mm long.
 - f. Ligule with a very conspicuous scarious appendage; plants climbing 18. *S. secans*.

- f.* Ligule unappendaged : plant not climbing.
17. *S. longigluma*.
- e.* Achene smaller, 1.5-4 mm long.
f. Ligule bearing a conspicuous scarious appendage.
18. *S. secans*.
- f.* Ligule unappendaged 16. *S. pterota*.

1. *S. hirtella* Sw.

Prodr. Veg. Ind. Occ. 19. 1788.

Carex hirtella Gmel. *Syst. Nat.* 2 : 138. 1791. Based on *Scleria hirtella* Sw.

Scleria interrupta Michx. *Fl. Bor. Am.* 2 : 168. 1803 : not Rich.

Act. Soc. Hist. Nat. Paris 1 : 113. 1792. « Carolina ad Floridam. »

Cenchrus hirsutus Spreng. *Neue. Entdeck.* 3 : 15. 1822 (*vide* Kunth, *Enum. Pl.* 1 : 166. 1833). Type locality Hispaniola.

Hypoporum humile Nees, *Linnaea* 9 : 303. 1834.

Hypoporum hirtellum Nees, *Linnaea* 9 : 303. 1834 (*vide* Britton, *Ann. N. Y. Acad. Sci.* 3 : 236. 1885).

Hypoporum interruptum Torr. *Ann. Lyc. N. Y.* 3 : 382. 1836. Based on *Scleria interrupta* Michx.

Scleria cenchroides Kunth, *Enum. Pl.* 2 : 352. 1837 (*vide* Boeck. *Linnaea* 38 : 440. 1874). « Cap. b. spei ; ad oram orientalen legit Drège. »

Scleria hirta Willd. ; Kunth, *Enum. Pl.* 2 : 352, in syn. 1837. « Willd. herb. n° 17329 (forma fructu laevi). »

Scleria mollis Kunth, *Enum. Pl.* 2 : 352. 1837. (*vide* Boeck. *Linnaea* 38 : 440. 1874). « Brasilia meridionalis. »

Scleria nutans Willd. ; Kunth. *Enum. Pl.* 2 : 351. 1837 (*vide* Britton, *Ann. N. Y. Acad. Sci.* 3 : 235. 1885). « Guiana, Brasilia, Chili, Mexico. »

Scleria interrupta Kunth, *Enum. Pl.* 2 : 352, in part (as to syn. *S. hirta*). 1837.

Scleria pulchella Nees, in *Mart. Fl. Bras.* 2 (1) : 170, in syn. 1842.

Anerma hispidula Schrad. in sched., *vide* Nees, in *Mart. Fl. Bras.* 2 (1) : 170. 1842.

Hypoporum nutans Nees, in *Mart. Fl. Bras.* 2 (1) : 170. 1842. Based on *Scleria nutans* Kunth.

Scleria Michauxii Chapm. *Fl. S. U.* 8. 532. 1860. Based on *Scleria interrupta* Michx.

Scleria hirtella var. *pauciciliata* Britton, *Ann. N. Y. Acad. Sci.* 3 : 236. 1885.

Scleria humilis Britton, *Ann. N. Y. Acad. Sci.* 3 : 236. 1885. Here ascribed to Nees (*Linnaea* 9 : 303. 1834), who did not make this combination.

One of the most widespread species of the genus, occurring in wet grassy lands, pine barrens, and savannahs from northern Argentina to southern United States, also in Africa.

BRAZIL: Paraná: Curityba, Dusen 2239; Santa Catharina: Tubarão, Ule 1374; Río Grande do Sul: Municipio St. Amaro, Rinoao do Mellos, Jurgens 22.

PARAGUAY: Between Caacupe and Tobaty, Archer and Rojas 4852; Sued, Kuntze 83; Cord. de Altos, Hassler 1315; Caballero, Morong 424; Igatini, Sierra de Maracayú, Hassler 5633; Cordillera de villa Rica, Hassler 8794.

URUGUAY: entre el A° Sarandí y el balneario La Floresta, dept. Canelones, Rosengurtt 971; Carrasco, dept. Montevideo, Herter 344.

2. *S. catharinensis* Boeck.

Allg. Bot. Zeitschr. 2: 158. 1896.

Known only from the type locality, Campo de Capiuare, Santa Catharina, Brazil (Ule 1923).

3. *S. filiculmis* Boeck.

Allg. Bot. Zeitschr. 2: 158. 1896.

Known only from the type locality, Santa Catharina, Brazil (Ule 1939).

4. *S. leptostachya* Kunth.

Enum. Pl. 2: 354. 1837.

Hypoporum leptostachyum Nees, in *Mart. Fl. Bras.* 2(1): 172, 1842.

Based on *Scleria leptostachya* Kunth.

Type locality: « Brasilia meridionalis, Sellow legit. »

Distribution, wet grasslands. southern Brazil to Bolivia and northern Argentina.

BRAZIL: Paraná: Capao Grande, Dusen; Rio Grande do Sul: Cacho circa, Pl. Itin. Regn. II. 1024.

ARGENTINA: Posadas, Bonpland, Misiones, Ekman 1309.

5. **S. spicata** (Spreng.) F. Macbr.

Field Mus. Publ. Bot. 4 : 168. 1929.

Rynchospora spicata Spreng. *Syst. Veg.* 1 : 194. 1825.

Scleria pleostachya Kunth, *Enum. Pl.* 2 : 255. 1837. Type locality,
« in summo jugo montium Serra do S. Antonio dieto, prov. Minarum » (Sellow).

Hypoporum pleostachyum Nees, in *Mart. Fl. Bras.* 2 (1) : 172. 1843.
Based on *Scleria pleostachya* Kunth.

Type locality : « Brazil. »

In moist soil, southern Brazil.

BRAZIL : Mugy, São Paulo, Riedel in 1833.

6. **S. composita** (Nees) Boeck.

Linnaea 38 : 444. 1874.

Hypoporum compositum Nees, in *Mart. Fl. Bras.* 2 (1) : 171. 1842.

Type locality : « ad Aldeam S. Mariae, prov. Goyazanae », Brazil (*Pohl*).

Swamps, Brazil and Bolivia to northern Argentina.

BRAZIL : Rio Grande do Sul, Cruz Alta, Pl. Itin. Regn. II. 1079.

ARGENTINA : Posadas, pr. « La Granja », Misiones, Ekman 1297.

7. **S. scabrosa** Maury

Mem. Soc. Phys. Genève 31 : 148. 1889.

Known only from the type locality, in swamps, « Potrero de Cosme, inter Villa-Rica et Caaguazu ». Paraguay (Balansae 450).

8. **S. variegata** (Nees) Steud.

Syn. Pl. Cyp. 176. 1855.

Hypoporum variegatum Nees, in *Mart. Fl. Bras.* 2 (1) : 173. 1842.

Type locality : « In silvis ad Sebastianopolin, in silvaticis submontanis prov. Minarum », Brazil (*Martius*).

BRAZIL : Paraná, Villa Velha, Jonsson 219 a.

9. *S. uleana* Boeck.

Allg. Bot. Zeitschr. 2 : 159. 1896 ; Clarke, *Kew. Bull. Add. Ser.* 8 : 60. 1908.

Type locality : « Brazil. S. Catharina ; Tubarão, Ule, n° 1373 : S. Francisco, Ule, n° 230. »

BRAZIL : Sao Paulo, Villa Emma, Brade 12167 : Santa Catharina, Tubarao, Ule 1373.

10. *S. arundinacea* Kunth

Enum. Pl. 2 ; 347. 1837.

Scleria latifolia Nees, *Flora* 11 : 303. 1828 : Boeck. *Linnaea* 38 : 530. 1874 ; not Sw.

Scleria sylvestris Poepp. et Kunth ; Kunth, *Enum. Pl.* 2 : 346. 1837. « Provincia Peruviana Huanuco (in sylvis ad Cuchero). Poeppig legit. »

Scleria cyanocarpa Kunth, *Enum. Pl.* 2 : 347. 1837. « Brasilia meridionalis. Sellow legit. »

Schizolepis latifolia Nees, in *Mart. Fl. Bras.* 2(1) : 186. 1842. Based on *Scleria latifolia* Sw.

Schizolepis trigonocarpa Nees, in *Mart. Fl. Bras.* 2(1) : 186. 1842. pl. 26. 1842. « In silvis prov. Maragnaniensis et Paraensis » (*Martius*).

Scleria silvestris Nees, in *Mart. Fl. Bras.* 2(1) : 188. 1842 ; variant spelling.

Schizolepis silvestris Nees, in *Mart. Fl. Bras.* 2(1) : 223-224 (index). 1842.

Scleria grandifolia Miq. *Linnaea* 19 : 230. 1847 (*fide* Boeck. *Linnaea* 38 : 532. 1874. « Crescit ad Osembo in Para » *Focke*).

Scleria Kappleriana Hochst. ; Steud. *Syn. Pl. Cyp.* 172, as syn 1855.

Scleria trigonocarpa Steud. *Syn. Pl. Cyp.* 171, 1855. Based on *Schizolepis trigonocarpa* Nees.

Schizolepis arundinacea Palla, *Denks. Acad. Wein.* 79 : 196. 1908. Based on *Scleria arundinacea* Kunth.

Type locality : « Nova Hollandia », in error ; probably Martinique.

A tropical species, widely distributed in forests and clearings from northern Argentina, Paraguay, and Bolivia to Central America and the Lesser Antilles.

BRAZIL : Santa Catharina : Ule 966 : Rio Grande do Sul, Czermak et Reinecke 444.

PARAGUAY: Cordillera de Villa Rica, Hassler 8685; Sierra de Amambay, Hassler 10800, 11302, 10439; Cordillera de Altos, Fiebrig 418.

ARGENTINA: Lagunas de la Cordillera de Misiones, Niederlein 2116.

11. *S. panicoides* Kunth

Enum. Pl. 2: 348. 1837.

Schizolepis panicoides Nees, in *Mart. Fl. Bras.* 2(1): 188. 1842.

Based on *Scleria panicoides* Kunth.

Type locality: « Brasilia meridionalis. Sellow legit. »
Damp shady places, southern Brazil to Paraguay and Bolivia.

BRAZIL: Parana; Villa Velha, Dusen 217 a.

PARAGUAY: Jörgensen 4490.

12. *S. plusiophylla* Steud.

Syn. Pl. Cyp.: 172. 1855.

Schizolepis foliosa Nees, in *Mart. Fl. Bras.* 2(1): 188. 1842.

Type locality: « In Brasilia meridionalis Sellow in Herb. R. Berol. » Southern Brazil and Paraguay.

PARAGUAY: Cordillera de Villa Rica, Hassler 8685.

13. *S. colorata* Core

Brittonia 1: 242. 1934.

Known only from the type locality, in campos, Paraná, Brazil, P. Dusen 3739, December 14, 1903.

1. *S. Sellowiana* Kunth

Enum. Pl. 2: 350. 1837.

Chondrolomia Sellowiana Nees, in *Mart. Fl. Bras.* 2(1): 174. 1842.

Based on *Scleria Sellowiana* Kunth.

Type locality: « Brasilia meridionalis. Sellow legit. » Moist grasslands, southern Brazil and Uruguay.

URUGUAY: Carrasco, dept. Montevideo, Herter 611: Barra St. Lucía, dept. San José, Osten 21820.

15. **S. Balansae** Maury

Mem. Soc. Phys. Genève **31** (1) : 148. 1889.

Scleria Sellowiana var. *Balansae* Clarke, *Bull. Herb. Boiss.* **II** : 3 : 1028. 1903 Based on *Scleria Balansae* Maury.

Type locality : « In planitie ad Dona-Juana, prope Villa-Rica, in pratis, Septembr., (Balansa 459); Caaguazú, in campos, Novembr., (Balansa 459 a). »

In grasslands, Uruguay, Paraguay, and northern Argentina.

URUGUAY : Dona Juana, near Villa Rica, Balansa 459; Montevideo, Arechavaleta 262.

PARAGUAY : Villa Rica, Jorgensen 3585.

ARGENTINA : Misiones : Posadas, Ekman 1282.

16. **S. pterota** Presl.

Isis **21** : 268, 1826.

Schoenus latifolius Vahl, *Enum.* **2** : 226. 1806 (*vide* Kunth, *Enum. Pl.* **2** : 338. 1837).

Scleria latifolia Sieber : Presl, *Isis* **21** : 268. (*vide* Boeck. *Linnaea* **38** : 482. 1874).

Scleria asperata Presl. *Isis* **21** : 268. 1828.

Scleria margaritifera Presl, *Isis* **21** : 268. 1828 (*vide* Boeck. *Linnaea* **38** : 482. 1874).

Dichromena Vahlü Dietr. *Sp. Pl.* **2** : 169. 1833 (*vide* Clarke, *Symb. Ant.* **2** : 147. 1900).

Scleria affinis Presl, Steud. *Nomencl.* ed. **2** : 542. 1841.

Scleria communis Kunth, *Enum. Pl.* **2** : 340, pro parva parte. 1837 (*vide* Clarke, *Symb. Ant.* **2** : 146. 1900). « Brasilia, Bahia, Martinica, Jamaica, et? Nova Hollandia (an partia a Sieb. recte notata?). »

Scleria Selloana Schrad., Nees, in *Mart. Fl. Bras.* **2** (1) : 179, as syn. 1842.

Scleria conspersa Sellow, Nees, in *Mart. Fl. Bras.* **2** (1) : 179, 1842.

Scleria pratensis Lindl., Nees, *Nova Acta Acad. Leop. Carol.* **19** : Suppl. **1** : 121. 1843.

Scleria simplicior Steud. *Syn. Pl. Cyp.* 169. 1855. « Rengger legit in Paraguay. »

Scleria Ottonis Boeck. *Linnaea* **38** : 490. 1874. Type locality, Cuba (Otto 299).

Scleria flagellata Sw., Boeck. *Linnaea* **38** : 506, as syn. 1874.

Scleria Pittieri Boeck., Tonduz, *Bull. Herb. Boiss.* **3** : 7, nomen.

1895. *Allg. Bot. Zeitschr.* 2: 159. 1896. « In Costarica leg. H. Pittier. »

Scleria boliviana Palla, Buchtein, *Contrib. Fl. Boliv.* 1: 90, name only. 1910,

Common in boggy meadows and wet clearings throughout continental tropical America and the West Indies.

PARAGUAY: « Sud-Paraguay », Kuntze; Asunción, Morong 246; Sapucay, Hassler 491; Cordillera de Villa Rica, Hassler 8667; San Bernardino, Endlich; San Miguel bei Unión, Endlich 107.

ARGENTINA: Formosa, Jörgensen 3312; Misiones, Posadas, Ekman 1271.

17. *S. longigluma* Kükenth.

Bot. Jahrb. 56: Beibl. 125: 22. 1921.

Type locality: « Amazonas: Rio Branco, Parime: Auf Sumpfcampo bei der Serra de Paracaima », Brazil (Ule 8066).

Swamps in campos, Brazil to northern Argentina.

PARAGUAY: Caaguazú, Hassler 8889; in regione fluminis Alto Paraná, Fiebrig 6298.

ARGENTINA: Posadas, Bonpland, Misiones, Ekman 1303, 1318.

18. *S. secans* (L.) Urban

Symb. Ant. 2: 169. 1900.

Schoenus secans L. *Syst. ed.* 2: 865, excl. syn. Rumpf. 1759.

Carex lithosperma L. *Syst. ed.* 12. 618, in part. 1767 (*vide* Sw. *Fl. Ind. Occ.* 1: 88, 1797).

Schoenus lithospermus L. *Sp. Pl.* ed. 2. 1: 65, in part. 1762. (*vide* Sw. *Ind. Fl. Occ.* 1: 88. 1797).

Arundo farcta Aubl. *Pl. Guian.* 1: 52. 1775 (*vide* Poir. in *Lam. Encyc.* 7: 1. 1806).

Scleria reflexa HBK. *Nov. Gen. et Sp.* 1: 232. 1816. « Crescit locis planis humidis Novae Andalusiae prope Cumana et Bordones. »

Scleria caricifolia Schrad., Nees, in *Mart. Fl. Bras.* 2 (1): 177, as syn. 1842.

Mastigoscleria reflexa Nees, in *Mart. Fl. Bras.* 2 (1): 177. 1842.
Based on *Scleria reflexa* HBK.

Scleria Rengeriana Steud. *Syn. Pl. Cyp.* 173. 1855. Type locality, Paraguay.

Scleria Weigeltiana Schrad., Boeck. *Linanea* 38: 504, as syn. 1874.
Type locality: Jamaica.

A common tropical species, wet thickets, roadsides, and savannahs, climbing over shrubs and trees to a height of 40 ft. The leaves are very sharp-edged, cutting the flesh like a knife.

BRAZIL: Blumeneau, St. Catharina, Ule 967: Rio Grande do Sul: Municipio Porto Alegre, Muro Sta. Anna, Jurgens 162.

PARAGUAY: Jörgensen 3585.

West Virginia University, Morgantown, West Virginia, U. S. A.